

## CLAIMS

1. A parametric reverse engineering method for designing tools, characterised in that it comprises the steps consisting of

- 5 • importing an existing model (the design of an existing tool for the existing part);
- producing a template for the existing tool;
- separating the tool from the part;
- cataloguing (saving in a numerical database structured  
10 in the form of a catalogue) the creation of the existing tool using section lines and characteristic lines;
- removing the original part;
- parameterising the template of the existing tool (creation of a parametric profile on the section lines and  
15 characteristic lines);
- importing the new part;
- making the parametric template correspond to the new part;
- creating the new model, that is to say the new tool for  
20 the new part.

2. A parametric reverse engineering method for designing tools according to claim 1, characterised in that the step consisting of making the parametric template correspond to the new part is carried out automatically.

25 3. A parametric reverse engineering method for designing tools according to claim 1, characterised in that the step

consisting of making the parametric template correspond to the new part is carried out interactively.